

NWS Form E-5

(04-2006)

(PRES. BY NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA (HSA)

San Juan, Puerto Rico

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:

MONTH

YEAR

December

2016

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE

Odalys Martinez – FIC

DATE

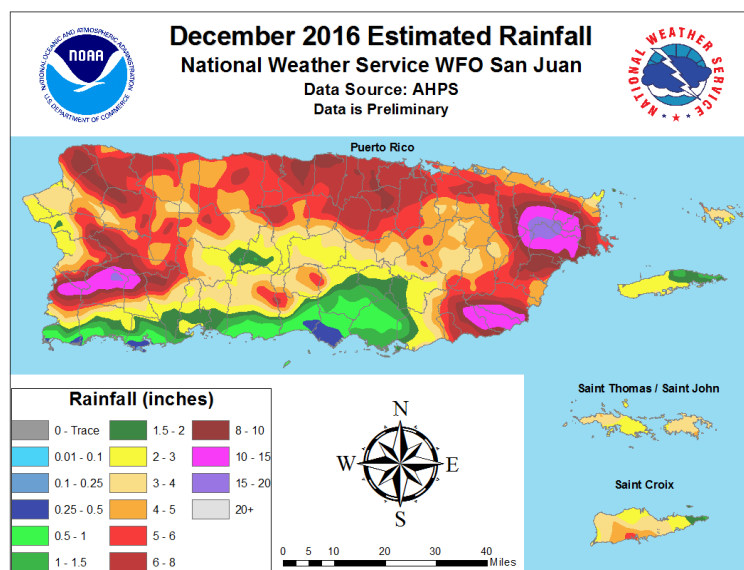
01/01/2017

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).



An X inside this box indicates that no flooding occurred within this hydrologic service area.

Summary: A seasonable weather pattern with no significant weather features was observed across the islands throughout the month. Quick passing showers were noted at times mainly across windward areas with limited shower activity observed in the afternoon across western Puerto Rico. A persistent high pressure pattern across the Atlantic resulted in a stronger than normal flow across the region. Therefore, several breezy to windy days along with frequent trade wind shower activity focused across the eastern half of PR and the USVI were reported. Based on the Cooperative Observer Network Data (COOP), 95 percent of the normal rainfall was observed across Puerto Rico. Preliminarily, an average rainfall total of 3.85 inches was measured, which is 0.21 inches below normal. Across the U.S. Virgin Islands, 64 and 81 percent of the normal rainfall was observed across Saint Thomas and Saint Croix, respectively (island-wide).



Please also see December 2016 Climate Report:

(http://www.weather.gov/media/sju/climo/monthly_reports/2016/Dec2016.pdf)

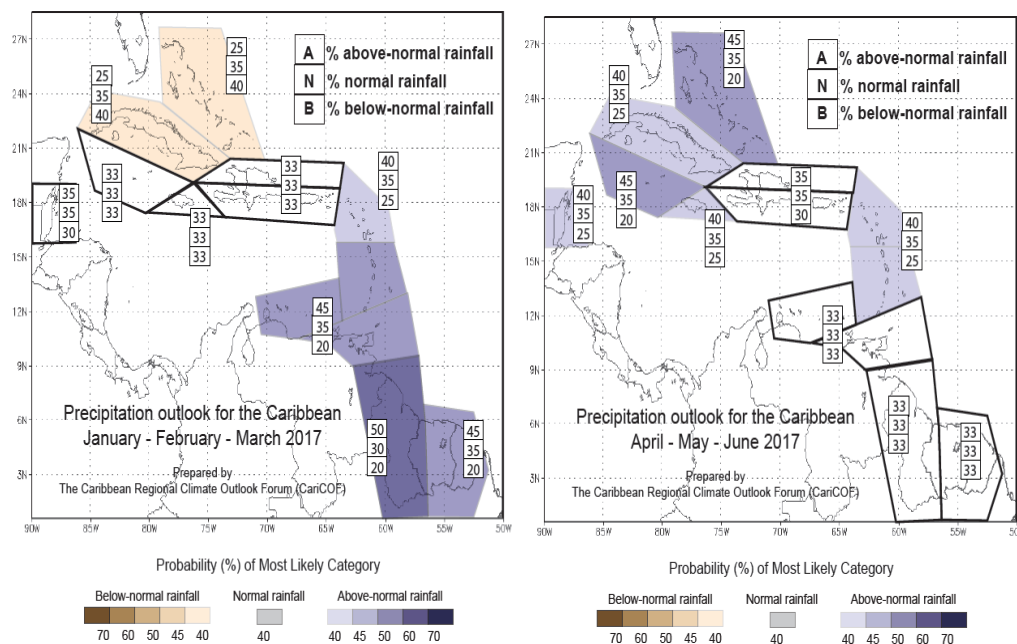
River and Drought Conditions: The 28-day average streamflow from the U.S. Geological Survey (USGS) river-gauge network indicates that the majority of streamflows across the western half of Puerto Rico are running above the 76th percentile, which is above or well above the normal range. Across the eastern half of the island most of the streamflows are running between the 25th and the 75th percentile, which is within the normal range. There is no drought conditions observed across the area.

Water Supply: Lake levels at water supply reservoirs continue at optimum levels.

Flood Conditions:

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	0
Flood Watches (SJUFFASJU)	0
Flood Warnings (SJUFLWSJU)	0
Flash Flood Warnings (SJUFFWSJU)	0
Flash Flood Statements (SJUFFSSJU)	0
Urban/Small Stream Flood Advisories (SJUFLSSJU)	11

General Hydrology Information: La Niña conditions are present, with a transition to ENSO – neutral favored during January – March 2017. In terms of SSTs, Tropical North Atlantic SSTs tend to cool anomalously towards the end of La Niña, and are currently slightly above average throughout the Caribbean Islands. Small positive SST anomalies are expected to persist throughout the region and portions of the Tropical North Atlantic during Jan-Feb-Mar, but mostly fade by Apr-May-Jun. La Niña tends to shift rainfall chances for Jan-Feb-Mar to above-normal in the southern-most islands of the Caribbean, and below-normal in the Bahamas and Cuba. However, with the forecast ENSO conditions suggesting a weak La Niña at most, its effect on rainfall may not be dominant.



More Info: <http://rcc.cimh.edu.bb/long-range-forecasts/caricof-climate-outlooks/>